AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A compound, represented by the general formula

A-X-PO₃-W

and or a physiologically acceptable salts salt, including isomers and stereoisomers or an isomer or stereoisomer, wherein:

A comprises is a radical selected from one of the formulae Y, YR¹, R¹Y, R¹YR⁴, R¹OY, YOR¹, R¹YOR² or R¹OYOR²;

W comprises is a radical of the formulae R³Q or a C4 to C7 non-aromatic heterocycle containing a nitrogen heteroatom wherein said heterocycle comprises consists of at least one heteroatom independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterocycle can be substituted with one or more substituent groups;

Y comprises is a carbocyclic ring, a carbocyclic ring comprising consisting of at least one substituent group, a fused bicyclic ring system, a fused bicyclic ring system comprising consisting of at least one substituent group, a bridged bicyclic ring system, a bridged bicyclic ring system comprising consisting of at least one substituent group, a bridged tricyclic ring system, a bridged tricyclic ring system, a bridged tricyclic ring system comprising consisting of at least one substituent group, a heterocyclic ring, a heterocyclic ring comprising at least one substituent group, an aromatic system or an aromatic system comprising at least one substituent group, a heteroaromatic system or a heteroaromatic system comprising at least one substituent group;

X comprises is a valency bond, a methylene group (–CH₂-) or a heteroatom selected from nitrogen, oxygen, sulfur;

R¹ comprises is a C5 to C18 alkylidene group or C5 to C18 alkyl group, any possible member selected from a substituted or unsubstituted carbocyclic ring having about 3 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members, or any above group comprising a substituent group on at least one available ring atom, an about C3 to about C20 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain, an about C3 to about C20 unsaturated straight or <u>branched</u>, <u>aliphatic hydrocarbon chain having 4 or fewer double bonds</u>, an about C3 to about C20 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain comprising consisting of one or more independently chosen heteroatoms, an about C3 to about C20 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain comprising consisting of at least one independently chosen possible member selected from a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; or any above member comprising consisting of a substituent group on at least one available ring atom, or any above about C3 to about C20 hydrocarbon chain having at least one independently chosen substituent group;

R² comprises is any possible member selected from a <u>substituted or unsubstituted</u> carbocyclic ring having about 3 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; any above group comprising a substituent group on at least one available ring atom, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain, an about C3 to about C20

unsaturated straight or branched, aliphatic hydrocarbon chain with 4 or fewer double bonds, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain emprising consisting of one or more independently chosen heteroatoms, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain emprising consisting of at least one independently chosen possible member selected from a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; or any above member emprising consisting of a substituent group on at least one available ring atom, or any above about C2 to about C5 hydrocarbon chain having at least one independently chosen substituent group;

R³ comprises is any possible member selected from a carbocyclic ring having about 3 to about 9 ring members, a heterocyclic ring having about 4 to about 9 ring members, an aromatic ring having about 5 to about 9 ring members, a heteroaromatic ring having about 5 to about 9 ring members; any above group comprising consisting of a substituent group on at least one available ring atom, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain comprising consisting of one or more independently chosen heteroatoms, an about C2 to about C5 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain comprising consisting of at least one independently chosen possible member selected from a carbocyclic ring having about 4 to about 7 ring members, a heterocyclic ring having about 4 to about 7 ring members, an aromatic ring having about 5 to about 7 ring members, a heteroaromatic ring having about 5 to about 7 ring members; or any above member comprising consisting of a substituent group on at least one available ring atom, or any above about C2 to about C5 hydrocarbon chain having at least one independently chosen substituent group;

R⁴ comprises is any group independently selected from R¹ or R²; and Q comprises is an ammonium group, wherein said ammonium group can be substituted one or more times with a C1 to C6 alkyl radical, or comprises is a C3 to C7 heterocycle containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterocycle can contain one or more heteroatoms independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterocycle can be substituted with one or more substituent groups, a heterobicyclic ring containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterobicyclic ring can contain one or more heteroatoms independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterobicyclic ring can be substituted with one or more substituent groups, a heterotricyclic ring containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterotricyclic ring can contain one or more heteroatoms independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterotricyclic ring can be substituted with one or more substituent groups. Advantageously the substituent groups are independently selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkylthio or amino.

2. (Currently amended) The compound of claim 1, wherein A comprises is YR¹. R¹YOR² or R¹OYOR².

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3. (Currently amended) The compound of claim 1, wherein the W comprises is a C4 to C7 non-aromatic heterocycle containing a nitrogen heteroatom wherein said heterocycle comprising consisting of at least one heteroatom independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterocycle can be substituted with one or more substituent groups independently selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkylthio or amino.

- 4. (Currently amended) The compound of claim 1, wherein X comprises is an oxygen atom.
- 5. (Currently amended) The compound of claim 1, wherein R¹ comprises is an about C3 to about C20 saturated or unsaturated, straight or branched, aliphatic hydrocarbon chain comprising consisting of a substituent group on at least one available ring atom, wherein the substituent groups are independently selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkythio or amino, or an about C3 to about C20 unsaturated straight or branched, aliphatic hydrocarbon chain with not more than 4 double bonds, comprising a substituent group on at least one available ring atom, wherein the substituent groups are independently selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkythio or amino.
- 6. (Currently amended) The compound of claim 1, wherein R² comprises is a C2 saturated or unsaturated alkyl or alkenyl, a C2 saturated or unsaturated alkyl or alkenyl which can be substituted with one or more substituents selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkylthio and amino.

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7. (Currently amended) The compound of claim 1, wherein R³ comprises is a C2 saturated or unsaturated alkyl or alkenyl, a C2 saturated or unsaturated alkyl or alkenyl which can be substituted with one or more substituents selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, arylalkyl, alkoxy, alkoxycarbonyl, alkylthio and amino or a C3 to C8 cycloalkyl which is bonded at C1 to the oxygen and at C2 to Q.

- 8. (Currently amended) The compound of claim 1, wherein Q comprises is a C3 to C7 heterocycle containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterocycle can contain one or more heteroatoms independently selected from nitrogen, oxygen, sulfur and combinations thereof, and wherein said heterocycle can be substituted with one or more substituent groups, independently selected from hydroxyl, halogen, alkyl, cycloalkyl, aryl, alkoxy, alkoxycarbonyl, alkylthio or amino.
- 9. (Currently amended) The compound of claim 1, wherein R¹ comprise is a C5 to C18 alkylidene group or C5 to C18 alkylidene.
- 10. (Currently amended) The compound of claim 1, wherein R¹ comprises is pentylidene, undecylidene, dodecylidene, tetradecylidene, hexadecylidene, pentyl, undecyl, dodecyl, tetradecyl or hexadecyl groups.
- 11. (Currently amended) The compound of claim 1, wherein Y comprises is a C3 to C6 carbocyclic ring, a substituted carbocyclic ring, a bridged tricyclic ring system, or a substituted bridged tricyclic ring system or an aromatic ring.
- 12. (Currently amended) The compound of claim 1, wherein Y comprises is cyclohexyl, or adamantyl or phenyl.

- 13. (Currently amended) The compound of claim 1, wherein R² comprises is a C2 saturated alkyl.
- 14. (Currently amended) The compound of claim 1, wherein Q comprises is trimethylammonium, N-methylmorpholinio or N-methylpiperidinio.
- 15. (Currently amended) The compound of claim 1, wherein:

A comprises is R¹YOR²;

W comprises is R3Q;

X comprises is oxygen;

Y residue <u>comprises is</u> a carbocyclic ring, a substituted carbocyclic ring, a bridged tricyclic ring system, or a substituted bridged tricyclic ring system;

R¹ comprises is a C12 to C18 alkylidene group or C12 to C18 alkyl group;

R² comprises is a C2 saturated alkyl;

R³ comprises is a C2 saturated alkyl; and

Q comprises is an ammonium group, wherein said ammonium group can be substituted one or more times with a C1 to C6 alkyl radical, or comprises is a C3 to C7 heterocycle containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterocycle can contain one or more heteroatoms selected from nitrogen, oxygen or sulfur, and wherein said heterocycle can be substituted with one or more independently chosen substituents.

16. (Currently amended) The compound of claim 1, which comprises is at least one of 1-{2-{[(4-Dodecylidenecyclohexyloxy)ethyloxy]} hydroxyphosphinyloxy}ethyl}-*N*, *N*, *N*-trimethylammonium inner salt; 1-{2-{[(4-Dodecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylpiperidinium inner salt; 1-{2-{[(4-Dodecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylmorpholinium inner salt; 1-{2-{[(4-

Tetradecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-*N*,*N*,*N*-trimethylammonium inner salt; 1-{2-{[(4-

Tetradecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-ethylpiperidinium inner salt; 1-{2-{[(4-

Tetradecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylmorpholinium inner salt; 1-{2-{[(4-

Hexadecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}- *N,N,N*-trimethylammonium inner salt; 1-{2-{[(4-

Hexadecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylpiperidinium inner salt; 1-{2-{[(4-

Hexadecylidenecyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylmorpholinium inner salt; 1-{2-{[(4-

Dodecylcyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl -N,N,N-trimethylammonium inner salt; or 1-{2-{[(4-

Tetradecylcyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-*N*,*N*,*N*-trimethylammonium inner salt.

17. (Currently amended) The compound of claim 1 wherein

A comprises is YR1;

W comprises is R3Q;

X comprises is oxygen;

Y residue <u>comprises is</u> a carbocyclic ring, a substituted carbocyclic ring, a bridged tricyclic ring system, a substituted bridged tricyclic ring system or an aromatic system;

R¹ comprises is a C5 to C18 alkylidene group or C5 to C18 alkyl group;

R³ comprises is a C2 saturated alkyl; and

Q comprises is an ammonium group, wherein said ammonium group can be independently substituted one or more times with a C1 to C6 alkyl radical, or comprises is a C3 to C7 heterocycle containing a nitrogen heteroatom which is

bonded to the R³ group, wherein said heterocycle can contain one or more heteroatoms independently selected from nitrogen, oxygen or sulfur, and wherein said heterocycle can be substituted with one or more independently chosen substituents.

18. (Currently amended) A compound of claim 16, which <u>comprises consists</u> <u>of</u>, 1-{2-[(5-Cyclohexylidenepentyloxy)hydroxyphosphinyloxy] ethyl}- *N*,*N*,*N*-trimethylammonium inner salt; 1-{2-[(5-

Cyclohexylidenepentyloxy)hydroxyphosphinyloxy] ethyl}-1-methylpiperidinium inner salt; 1-{2-[(5-Cyclohexylidenepentyloxy)hydroxyphosphinyloxy] ethyl}-1-methylmorpholinium inner salt; 1-{2-[(11-

Cyclohexylideneundecyloxy)hydroxyphosphinyloxy]ethyl}-*N*, *N*, *N*-trimethylammonium inner salt; 1-{2-[(11-

Cyclohexylideneundecyloxy)hydroxyphosphinyloxy] ethyl}-1-methylpiperidinium inner salt; 1-{2-[(11-Cyclohexylideneundecyloxy)hydroxyphosphinyloxy]ethyl}-1-methylmorpholinium inner salt; 1-{2-[(5-

Adamantylidenepentyloxy)hydroxyphosphinyloxy]ethyl}-*N*,*N*,*N*-trimethylammonium inner salt; 1-{2-[(5-

Adamantylidenepentyloxy)hydroxyphosphinyloxy]ethyl}-1-methylpiperidinium inner salt; 1-{2-[(5-Adamantylidenepentyloxy)hydroxyphosphinyloxy]ethyl}-1-methylmorpholinium inner salt; 1-{2-[(11-

Adamantylideneundecyloxy)hydroxyphosphinyloxy]ethyl}-*N*,*N*,*N*-trimethylammonium inner salt; 1-{2-[(11-

Adamantylideneundecyloxy)hydroxyphosphinyloxy]ethyl}-1-methylpiperidinium inner salt; 1-{2-[(11-Adamantylideneundecyloxy)hydroxyphosphinyloxy]ethyl}-1-methylmorpholinium inner salt; 1-{2-[(11-

Cyclohexylundecyloxy)hydroxyphosphinyloxy] ethyl}-*N*,*N*,*N*-trimethylammonium inner salt; 1-{2-[(5-Adamantylpentyloxy)hydroxyphosphinyloxy] ethyl}-*N*,*N*,*N*-trimethylammonium inner salt; or 1-{2-[(11-

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Adamantylundecyloxy)hydroxyphosphinyloxy] ethyl}-N,N,N-trimethylammonium inner salt.

19. (Currently amended) The compound of claim 1 wherein:

A comprises is R¹OYOR²;

W comprises is R³Q;

X comprises is oxygen;

Y residue comprises is a carbocyclic ring, a substituted carbocyclic ring, a bridged tricyclic ring system, a substituted bridged tricyclic ring system or an aromatic system;

R¹ comprises is a C12 to C18 alkyl group;

R² comprises is a C2 saturated alkyl;

R³ comprises is a C2 saturated alkyl; and

Q comprises is an ammonium group, wherein said ammonium group can be independently substituted one or more times with a C1 to C6 alkyl radical, or comprises is a C3 to C7 heterocycle containing a nitrogen heteroatom which is bonded to the R³ group, wherein said heterocycle can contain one or more heteroatoms independently selected from nitrogen, oxygen or sulfur, and wherein said heterocycle can be substituted with one or more independently chosen substituents.

20. (Currently amended) The compound of claim 18 which comprises is 1-{2-{[(4-(Dodecyloxy)cyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylpiperidinium inner salt, 1-{2-{[(4-

(Dodecyloxy)cyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylmorpholinium inner salt, 1-{2-{[(4-

(Tetradecyloxy)cyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylpiperidinium inner salt, or 1-{2-{[(4-

(Tetradecyloxy)cyclohexyloxy)ethyloxy]hydroxyphosphinyloxy}ethyl}-1-methylmorpholinium inner salt.

- 21. (Currently amended) A pharmaceutical composition comprising consisting of a compound of claim 1 and a pharmaceutically acceptable carrier.
- 22. (Currently amended) A method of treating protozoal diseases leishmaniasis, trypanosomiasis, malaria, toxoplasmosis, babeosis, amoebic dysentery and lambliasis in an individual or animal in need of treatment, comprising administering an effective amount of a compound of claim 1.
- 23. (cancelled)